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=> s GC33 and (GPC-3 or glypican 3)
          7 GC33
      15004 GPC
         85 GPCS
      15053 GPC
            (GPC OR GPCS)
    7644384 3
         73 GPC-3
            (GPC(W)3)
        716 GLYPICAN
        345 GLYPICANS
        776 GLYPICAN
            (GLYPICAN OR GLYPICANS)
    7644384 3
        299 GLYPICAN 3
            (GLYPICAN(W)3)
L1        3 GC33 AND (GPC-3 OR GLYPICAN 3)

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=> d L2 bib abs 1-3

L2  ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2009 ACS on STN
AN  2008:1471243  CAPLUS
DN  150:53942
TI  Anti-glypican 3 antibodies cause ADCC against human
    hepatocellular carcinoma cells
AU  Nakano, Kiyotaka; Orita, Tetsuro; Nezu, Junichi; Yoshino, Takeshi;
    Ohizumi, Iwao; Sugimoto, Masamichi; Furugaki, Koh; Kinoshita, Yasuko;
    Ishiguro, Takahiro; Hamakubo, Takao; Kodama, Tatsuhiko; Aburatani,
    Hiroyuki; Yamada-Okabe, Hisafumi; Tsuchiya, Masayuki
CS  Research Laboratories, Chugai Pharmaceutical Co. Ltd., 1-135 Komakado,
    Gotemba, Shizuoka, 412-8513, Japan
SO  Biochemical and Biophysical Research Communications (2009), 378(2),
    279-284
    CODEN: BBRCA9; ISSN: 0006-291X
PB  Elsevier B.V.
```

DT Journal
LA English
AB Glypican 3 (GPC3), a GPI-anchored heparan sulfate proteoglycan, is expressed in the majority of hepatocellular carcinoma (HCC) tissues. Using MRL/lpr mice, the authors successfully generated a series of anti-GPC3 monoclonal antibodies (mAbs). GPC3 was partially cleaved between Arg358 and Ser359, generating a C-terminal 30-kDa fragment and an N-terminal 40-kDa fragment. All mAbs that induced antibody-dependent cellular cytotoxicity (ADCC) and/or complement-dependent cytotoxicity (CDC) against cells expressing GPC3 recognized the 30-kDa fragment, indicating that the C-terminal region of GPC3 serves as an epitope for mAb with ADCC and/or CDC inducing activities. Chimeric mAbs with Fc replaced by human IgG1 were created from GC33, one of the mAbs that reacted with the C-terminal 30-kDa fragment. Chimeric GC33 induced not only ADCC against GPC3-pos. human HCC cells but also was efficacious against the Huh-7 human HCC xenograft. Thus, mAbs against the C-terminal 30-kDa fragment such as GC33 are useful in therapy targeting HCC.
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2008:1433769 CAPLUS
DN 150:18894
TI Anti-Glypican 3 Antibody as a Potential Antitumor Agent for Human Liver Cancer
AU Ishiguro, Takahiro; Sugimoto, Masamichi; Kinoshita, Yasuko; Miyazaki, Yoko; Nakano, Kiyotaka; Tsunoda, Hiroyuki; Sugo, Izumi; Ohizumi, Iwao; Aburatani, Hiroyuki; Hamakubo, Takao; Kodama, Tatsuhiko; Tsuchiya, Masayuki; Yamada-Okabe, Hisafumi
CS Pharmaceutical Research Department, Chugai Pharmaceutical Co. Ltd., Kanagawa, 412-8513, Japan
SO Cancer Research (2008), 68(23), 9832-9838
CODEN: CNREA8; ISSN: 0008-5472
PB American Association for Cancer Research
DT Journal
LA English
AB Human glypican 3 (GPC3) is preferentially expressed in the tumor tissues of liver cancer patients. In this study, we obtained a monoclonal antibody (mAb) against the COOH-terminal part of GPC3, which induced antibody-dependent cellular cytotoxicity (ADCC). The mAb, designated GC33, exhibited marked tumor growth inhibition of s.c. transplanted Hep G2 and HuH-7 xenografts that expressed GPC3 but did not inhibit growth of the SK-HEP-1 that was neg. for GPC3. GC33 was efficacious even in an orthotopic model; it markedly reduced the blood

.alpha.-fetoprotein levels of mice intrahepatically transplanted with Hep G2 cells. Humanized GC33 (hGC33) was as efficacious as GC33 against the Hep G2 xenograft, but hGC33 lacking carbohydrate moieties caused neither ADCC nor tumor growth inhibition. Depletion of CD56+ cells from human peripheral blood mononuclear cells markedly abrogated the ADCC caused by hGC33. The results show that the antitumor activity of hGC33 is mainly attributable to ADCC, and in human, natural killer cell-mediated ADCC is one possible mechanism of the antitumor effects by GC33. hGC33 will provide a novel treatment option for liver cancer patients with GPC3-pos. tumors.

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ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:193650 CAPLUS
DN 144:267250
TI Anti-glypican 3 antibody for preventing liver tumor recurrence
IN Kinoshita, Yasuko; Sugimoto, Masamichi; Okabe, Hisafumi
PA Chugai Seiyaku Kabushiki Kaisha, Japan
SO PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006022407	A1	20060302	WO 2005-JP15607	20050823
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 1800693	A1	20070627	EP 2005-780979	20050823
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 101014367	A	20070808	CN 2005-80028610	20050823
KR 2007050963	A	20070516	KR 2007-705914	20070314

US 20070269444 A1 20071122 US 2007-574091 20070611
PRAI JP 2004-244273 A 20040824
JP 2005-90945 A 20050328
WO 2005-JP15607 W 20050823
AB Described is an anti-glypican 3 antibody administered after the removal of cancer, esp. liver tumor, to prevent tumor recurrence. This anticancer agent is preferably employed in the case where glypican 3 is expressed in the removed liver cancer cells. Anti-glypican 3 antibody is useful in monitoring tumor cells in patients after removal of the tumor. Anti-glypican 3 antibody GC33 decreased the concn. of serum AFP (.alpha.-fetoprotein) in mouse liver tumor models induced by injection of HepG2 cells into membrana dermalis of livers.
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
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